IN THE CLAIMS:

- Please cancel claims 1-7, 9-19, 21-27, 29-33, 35, 37-38, 40-43, and 50
- 1 19. (Cancelled)
- 20. (Previously Presented) A method for allocating a spare disk to replace a failed disk in
- a network storage system, comprising:
- maintaining a plurality of volumes in the network storage system, each volume
- associated with a set of disk storage units;
- 5 maintaining a plurality of spare disks in the network storage system;
- attempting to determine the best spare disk by selecting those disks from the plu-
- 7 rality of spare disks which meet at least one rule;
- replacing the failed disk with the best spare disk;
- in the event that no spare disk meets the at least one rule, selecting a spare disk
- which violates the at least one rule as a selected disk; and
- notifying an administrator that the selected spare disk violates the rule.
 - 21. -27. (Cancelled)
- 28. (Previously Presented) A network storage system, comprising:
- means for maintaining a plurality of volumes in the network storage system, each
- 3 volume associated with a set of disk storage units;
- means for maintaining a plurality of spare disks in the network storage system;
- means for attempting to determine a best spare disk by selecting those disks from
- 6 the plurality of spare disks which meet at least one rule;
- means for replacing the failed disk with the best spare disk;

- in the event that no spare disk meets the at least one rule, means for selecting a 1 spare disk which violates the at least one rule as a selected disk; and 2 means for notifying an administrator that the selected spare disk violates the rule. 3 29. -33. (Cancelled) 1 34. (Previously Presented) A file server in a network storage system, comprising: 1 a storage adapter to connect to a plurality of disk storage units in the network 2 storage system; 3 an operating system to maintain a plurality of volumes, each volume associated 4 with a set of disk storage units, the set of disk storage units selected from the plurality of 5 disk storage units; 6 the operating system maintaining a plurality of spare disks units selected from the 7 plurality of disk storage units; 8 the operating system choosing a best spare disk of the plurality of spare disks to 9 replace a failed disk, the failed disk associated with any volume of the network storage 10 system; 11 the operating system attempting to determine a best spare disk by selecting those 12 disks from the plurality of spare disks which meet at least one rule; 13 the operating system replacing the failed disk with the best spare disk; 14 in the event that no spare disk meets the at least one rule, the operating system se-15 lecting a spare disk which violates the at least one rule as a selected disk; and 16 the operating system notifying an administrator that the selected spare disk vio-17 lates the rule. 18
- 1 35. 38. (Cancelled)
- 1 39. (Currently Amended) The method of claim 13 A method for allocating a spare disk
- to replace a failed disk in a network storage system, comprising:

3	maintaining a plurality of volumes in the network storage system, each volume
4	associated with a set of disk storage units;
5	maintaining a plurality of spare disks in the network storage system;
6	choosing a best spare disk of the plurality of spare disks to replace a failed disk,
7	the failed disk associated with any volume of the network storage system, wherein the
8	best spare disk is chosen based upon a comparison of the speed of the spare disks and the
9	failed disk; and
10	replacing the failed disk with the best spare disk.
1	40. – 44. (Cancelled)
1	45. (Previously Presented) A computer implemented method for allocating a spare stor-
2	age device to replace a failed storage device in a network storage system, comprising:
3	identifying a set of spare storage devices in the network storage system; and
4	selecting a particular spare storage device of the set of spare storage devices to re-
5	place the failed storage device, the particular spare storage device selected using a size
6	policy in which preference is given to a spare storage device with minimum storage space
7	in excess of the storage space of the failed disk.
1	46. (Previously Presented) A computer implemented method for allocating a spare stor-
2	age device to replace a failed storage device in a network storage system, comprising:
3	identifying a set of spare storage devices in the network storage system; and
4	selecting a best spare storage device of the set of spare storage devices to replace
5	the failed storage device, the best spare storage device selected using a speed policy in
6	which preference is given to a spare storage device with a speed closest to that of the
7	failed disk.

- 47. (Previously Presented) The method of claim 46 wherein the speed is a rotation
- 2 speed.
- 48. (Previously Presented) The method of claim 46 wherein the speed is a data read
- 2 speed.
- 49. (Previously Presented) The method of claim 46 wherein the speed is a data write
- 2 speed.
 - 50. (Cancelled)
- 51. (Previously Presented) A computer readable medium comprising executable pro-
- gram instructions for allocating a spare storage device to replace a failed storage device
- in a network storage system, the executable program instructions adapted for:
- identifying a set of spare storage devices in the network storage system; and
- selecting a particular spare storage device of the set of spare storage devices to re-
- 6 place the failed storage device, the particular spare storage device selected using a size
- 7 policy in which preference is given to a spare storage device with minimum storage space
- 8 in excess of the storage space of the failed disk.
- 52. (Previously Presented) A computer readable medium comprising executable pro-
- gram instructions for allocating a spare storage device to replace a failed storage device
- in a network storage system, the executable program instructions adapted for:
- identifying a set of spare storage devices in the network storage system; and
- selecting a best spare storage device of the set of spare storage devices to replace
- 6 the failed storage device, the best spare storage device selected using a speed policy in
- which preference is given to a spare storage device with a speed closest to that of the
- 8 failed disk.